

DRUG DELIVERY DEVICE

ABSTRACT

5 A medical device for drug delivery is provided which includes a stent
structure and a biologically active structure attached to the stent structure. The
biologically active structure is comprised of a plurality of layers, including a first layer
having a first biologically active compound, such as an anti-proliferative, cytostatic or
cytotoxic drug, for delivery at a first target site, such as the vascular tissue; a second layer
10 having a second biologically active compound, such as a growth factor, for delivery into
the arterial lumen and capable of promoting engraftment and differentiation of
hematopoietic stem cells and/or endothelial progenitor cells at a second site of
myocardial injury; and a third, middle layer which is substantially or selectively
impermeable to both the first and second biologically active compounds.

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